Patent Claims

5

- 1. 2-(16-Acetoxy-3,7-dihydroxy-4,8,10,14-tetramethyl-6-[hydroxy, (C₁₋₂₂)alkoxy or carbonyloxy]-hexadecahydro-cyclopenta[a]phenanthren-17-ylidene)-6-methyl-heptanoic acids.
- 2. A compound of claim 1 which is of formula

$$H_3C$$
 H_3C
 CH_3
 CH_3

wherein

- R is hydrogen, CO-R₁ or (C₁₋₂₂)alkyl, and
 R₁ is hydrogen, (C₁₋₂₂)alkyl, (C₃₋₈)cycloalkyl, (C₁₋₆)alkoxy-(C₁₋₆)alkyl,
 (C₁₋₄)alkoxy-(C₁₋₄)alkoxy-(C₁₋₄)alkyl, amino(C₁₋₄)alkyl, halo(C₁₋₆)alkyl,
 hydroxy(C₁₋₄)alkyl, hydrogencarbonyl, hydroxycarbonyl(C₁₋₄)alkyl, (C₁₋₄)alkoxycarbonyl-(C₁₋₄)alkyl, (C₆₋₁₈)aryl, heterocyclyl having 5 or 6 ring members and 1 to 4
 heteroatoms selected from S, O or N, or brigded (C₇₋₁₂)cycloalkyl.
- A compound of any one of claims 1 or 2, wherein
 R is hydrogen, (C₁₋₆)alkyl, or CO-R₁, and
 R₁ is hydrogen, (C₁₋₆)alkyl, (C₃₋₆)cycloalkyl, (C₁₋₃)alkoxy-(C₁₋₃)alkyl, methoxy-(C₁₋₂)alkoxy-(C₁₋₂)alkyl, aminomethyl, halo(C₁₋₄)alkyl comprising one or two halogen atoms, hydroxymethyl, hydroxycarbonylmethyl, methoxycarbonyl-(C₁₋₂)alkyl, phenyl, tetrahydrofuranyl or adamantanyl.
 - 4. A compound of any one of claims 1 to 3, wherein R is a group of formula

5

15

$$\bigcap_{CH_3}^{N(CH_3)_2} \circ r \longrightarrow_{CH_3}^{CH_3} \circ r \longrightarrow_{N(CH_3)_2}^{CH_3} \circ r \longrightarrow_{CH_3}^{CH_3} \circ r \longrightarrow_{CH_3}^{F} \circ r$$

- 5. A compound of any one of claims 1 to 4 in the form of a salt.
- 6. A compound of any one of claims 1 to 5 for use as a pharmaceutical.
- 7. The use of a compound of any one of claims 1 to 5 for the manufacture of a medicament for the treatment of microbial diseases.
 - 8. A pharmaceutical composition comprising a compound of any one of claims 1 to 5 in association with at least one pharmaceutical excipient.
 - 9. A pharmaceutical composition according to claim 8, further comprising another pharmaceutically active agent.
- 10. A method of treatment of microbial diseases, which treatment comprises administering
 to a subject in need of such treatment an effective amount of a compound of any one of claims 1 to 5.
 - 11. A compound of formula

wherein

 Prot_1 is a protecting group, and

Prot₂ is either other than a protecting group, or is a protecting group, and
R'₁ has the meaning of R₁, as defined in any one of claims 1 to 5, and additionally includes residues as defined in R₁, wherein functional groups are protected.

12. A compound of formula

10 or of formula

$$\begin{array}{c|c} H_3C \\ H_3C \\ CH_3 \\ CH_3 \\ CH_3 \\ O-CO-CH_3 \\ O \\ CH_3 \\ OH \\ V \\ \end{array}$$

13. A compound of formula

$$\begin{array}{c|c} H_3C & O \\ H_3C & H & OProt_1 \\ \hline \\ CH_3 & CH_3 & O-CO-CH_3 \\ \hline \\ Prot_2O & H & OH & VIII \\ \hline \\ CH_3 & O_{R''} & \\ \end{array}$$

5 wherein $Prot_1$ and $Prot_2$ are as defined in claim 10, and R" is (C_{1-8}) alkyl.

IL/24-Sep-2004